European Vegetation Archive
Data Request Form

To obtain data from the European Vegetation Archive (EVA), including the ReSurveyEurope Database, please first enquire the EVA database administrator Ilona Knollová (ikuzel@sci.muni.cz) whether the data that meet your needs are available. If they are, please fill in the form below and submit it to Ilona or another member of the EVA Coordinating Board (or ReSurveyEurope Board if you ask for data from the ReSurveyEurope Database).

- Applicant's name:

Sabine Rumpf

- Applicant's institutional address:

University of Basel Department of Environmental Sciences Bernoullistrasse 32 4056 Basel Switzerland

- Applicant's e-mail:

Sabine.Rumpf@unibas.ch

- Project title:

Re-distributions of arctic and alpine plant species in the Anthropocene

- Are you asking for core EVA data (non-repeated vegetation surveys) or for ReSurveyEurope data (repeated vegetation surveys)?

Sub-project 1 & 2: only repeated Sub-project 3: both repeated and non-repeated

- Brief description of the aims and methods of the study:

<u>Sub-project 1:</u> Temporally dynamic analysis of elevational range limit shifts of arctic and alpine plant species. Univariate analysis of a set of focal species, depending on data availability. <u>Sub-project 2:</u> Disentangle the role of individual environmental change drivers on re-distributions of arctic and alpine plant species over time. Univariate anaylsis of a set of focal species, depending on data availability. <u>Sub-project 3:</u> Temporally dynamic quantification of accrued lags of arctic and alpine plant species. Time series of species distribution models of a set of focal species, depending on data availability.

- Will someone else be involved in data editing or analysis in addition to the applicant?

Maya Schrödl: data handling Sophie Weides: sub-project 1 & 2 Christopher Johnson: sub-project 3 All 3 are members of the research group Ecology at the University of Basel

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- Estimated time of delivery of results (e.g., manuscript submission):

Sub-project 1:June 2024
Sub-project 2: June 2025
Sub-project 3: June 2024

- Geographic area needed (e.g., countries or range of geographic coordinates):

All Europe but only mountainous regions & polar ecosystems

- Do you need plots to be georeferenced? If so, what is the minimum accuracy of plot location (in metres or kilometres) needed for your project?

Yes. Precision of regular GPS devices is sufficient.

- Vegetation types needed (syntaxa):

Tundra, grasslands & heath   Excluding forests

- Other data selection criteria:

Mountainous regions & Arctic

- Envisaged publications:

One publication per sub-project (i.e. 3 in total)

- Data deposition. Some journals require data used for the analysis to be stored in a public repository to ensure the repeatability of the analysis. According to EVA Rules, you are not allowed to store the original vegetation-plot data obtained from EVA. However, if you plan to publish in such a journal, you may deposit a reduced EVA-derived dataset that (1) would make it possible to repeat the analysis published in the paper and (2) does not contain any information not used in the analysis. For example, such a dataset can contain only a subset of species (e.g., only angiosperms or only neophytes), or replace species names with codes, or replace species cover values with presences/absences, or remove all the header data, or replace the exact plot coordinates by coarse grid-cell coordinates etc. If you plan to deposit reduced information from vegetation plots, please describe here what might be deposited. If the project developed so that you needed to deposit more information than specified here, you would need to ask specific permission from the Custodians of the EVA databases used in your analysis before the dataset is deposited.

Only data used in the analyses can be published. All three sub-projects focus on a subset of species for which sufficient data are available. If necessary, e.g. in the case of protected or vulnerable species, resolution of plot coordinates can be reduced so that exact re-location in the field is not possible. Sub-project 3 will not use cover or abundance values.

- Plant trait data from the TRY consortium. If you plan to combine your analysis of vegetation-plot data with plant trait data, you can also request a dataset of 18 gap-filled traits for a large number of plant taxa prepared by the TRY consortium. These traits include Leaf area, Specific leaf area, Leaf fresh mass, Leaf dry matter content, Leaf C, Leaf N, Leaf P, Leaf N per area, Leaf N:P ratio, Leaf delta15N, Seed mass, Seed length, Seed number per reproductive unit, Dispersal unit length, Plant height, Stem specific density, Stem conduit density, and Conduit element length. This dataset can be provided to you by the EVA manager together with the vegetation-plot data. If you use this dataset, you must inform about your

project the TRY data contributors who might be potentially interested and invite them as potential co-authors, assuming they will make an intellectual contribution to your paper. The list of the TRY data contributors will be sent to you together with the gap-filled trait dataset.

No

- **Specification of the co-authorship arrangements in publications based on the requested data.** Note that the EVA Rules recommend that co-authorship is offered to a representative of each database providing data that are particularly important for the project (e.g., a relatively large proportion of the final dataset used in the analyses or data from unique vegetation types or under-represented geographic areas). This database representative should be an expert in the topic of the project (not necessarily the custodian or deputy custodian), and this person should contribute to the project more than just by providing the existing data, e.g. by intellectual contribution to the concept of the paper, preparation of new data, or helping with data analysis, interpretation of the results or writing parts of the paper (see the IAVS Code of Professional Ethics: http://iavs.org/Governance/Code-of-Professional-Ethics.aspx). The project leader should enable active participation by regularly informing potential co-authors about the progress of the project from its early stage. The project leader should also make final co-authorship arrangements based on the real input of the individual contributors.

Data providers will be able to opt-in for intellectual contribution for each sub-project their data were used for. All three sub-projects are not solely based on EVA/ReSurveyEurope data and contributions and co-authorship will be managed separately for each sub-project, comprising all data providers, including those from EVA/ReSurveyEurope. All used datasets will be referenced (depening on journal requirements this might only be possible in the SI) regardless of co-authorship.

- **Eligibility of the applicant to receive EVA or ReSurveyEurope data.** Specify to which EVA or ReSurveyEurope database the applicant has contributed; if the applicant is not the custodian or deputy custodian of an EVA or ReSurveyEurope database, give a name of a custodian or deputy custodian who supports this data request.

Deputy custodian of resurvey DB AT_0007 AT_DiseqAlp

- I agree with the terms of EVA Data Property and Governance Rules as approved on 26 May 2012 (http://euroveg.org/download/eva-rules.pdf).
- If I ask for ReSurveyEurope data, I agree with the terms of ReSurveyEurope Data Property and Governance Rules as approved on 6 April 2022 (http://euroveg.org/download/resurveyeurope-rules.pdf).
- In any result obtained based on EVA core data (non-repeated vegetation surveys), I will cite the EVA report article (Chytrý et al. 2016; https://doi.org/10.1111/avsc.12191). In any result obtained based on the ReSurveyEurope data (repeated vegetation surveys), I will cite the ReSurveyEurope report article as soon as it is published. In addition, I will cite individual source databases used in my project (if possible, in the list of References; if not possible, at least as a list of databases in the electronic supplementary material).
- If I ask for the plant trait data from TRY, I agree to invite to my project the TRY data contributors following the list received from the EVA database manager.

[place, date]   Basel, 27.04.2023

[applicant's name]   Sabine Rumpf